

## ABSTRACT

A system may include a voltage regulator converter to generate a supply voltage, the voltage regulator converter comprising a high side power transistor to generate a high side alternating current and a low side power transistor to generate a low side alternating current, 5 a current sensing circuit to generate a first alternating current based on the high side alternating current and to generate a second alternating current based on the low side alternating current, a rectifier circuit to generate a substantially direct current based on the first alternating current and on the second alternating current, and a resistive element to receive the substantially direct current, wherein a voltage drop across the resistive element is 10 to be proportional to the supply voltage.